BABBAGE'S DIFFERENCE MACHINE
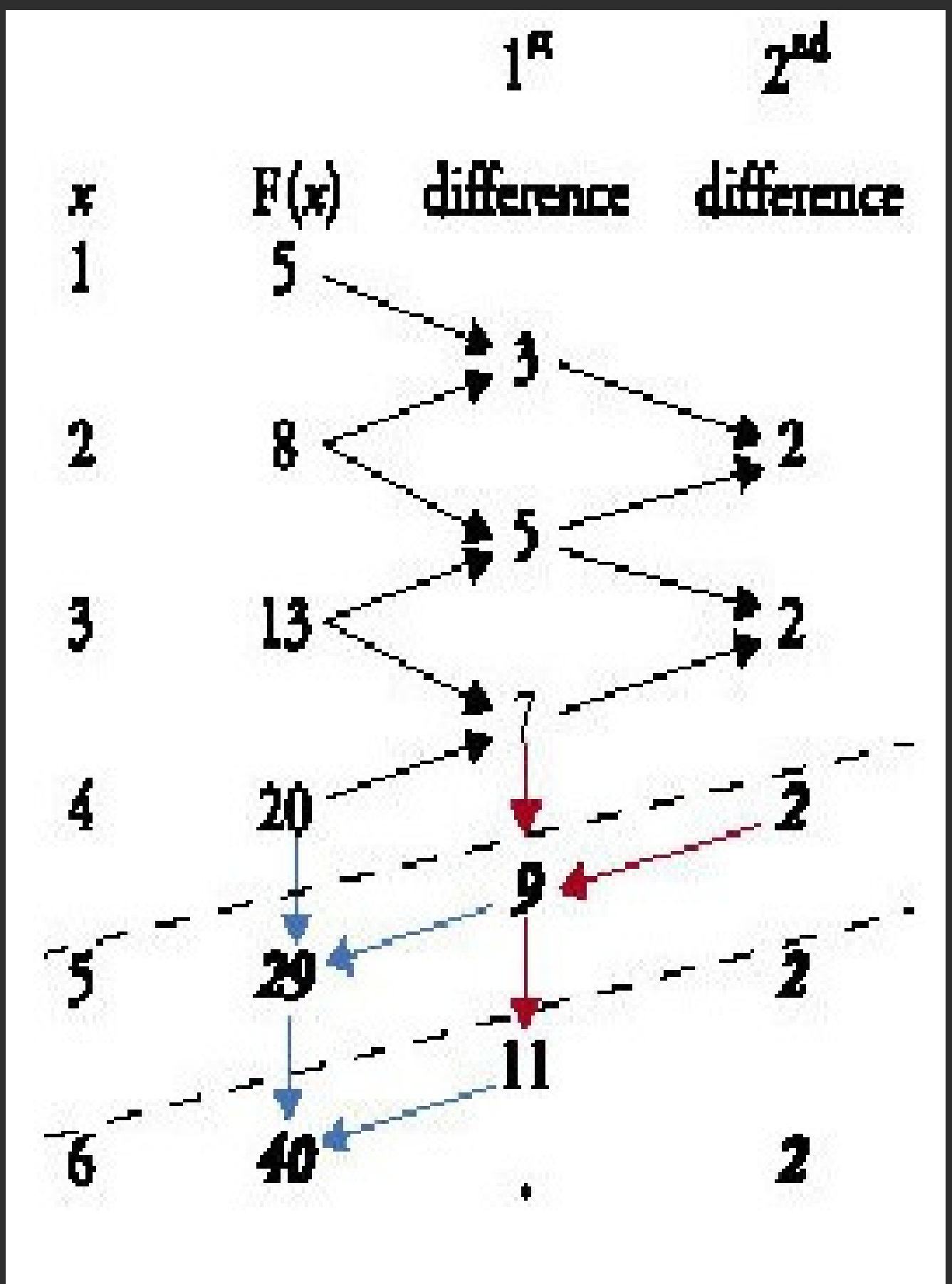
- calculate the first four values of a
- polynomial function.
- Then take differences by subtracting
- some output from it's successive output.

x	$F(x)$	1st difference	2nd difference
1	5		
		3	
2	8		2
		5	
3	13		2
		7	
4	20		2
		9	
5	29		2
		11	
6	40		2

- then add the second difference back to the first difference to find the succesive first difference

- then add your new difference to your last output to get the next output. REPEAT